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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/725,010	11/29/2000	Paula Sundstrom	23878.0005	8550

23767 7590 01/05/2004

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EXAMINER

ZARA, JANE J

ART UNIT	PAPER NUMBER
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1635

DATE MAILED: 01/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/725,010

Applicant(s)

SUNDSTROM, PAULA

Examiner

Jane Zara

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-7,11,19-21 and 27-32 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,4-7,11,19-21,27-32 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

This Office action is in response to the communication filed 10-2-03.

Claims 1, 4-7, 11, 19-21, 27-32 are pending in the instant application.

Response to Arguments and Amendments

Withdrawn Rejections

Any rejections not repeated in this Office action are hereby withdrawn.

Maintained Rejections

Claims 1, 4-7, 11, 19-21, 27-32 are rejected under 35 U.S.C. 112, first paragraph, for lacking adequate written description for the reasons of record set forth in the Office action mailed 7-2-03.

Applicant's arguments filed 10-2-03 have been fully considered but they are not persuasive. Applicants argue that adequate description has been provided for the claimed invention, and that the written description rejection is inappropriately rationalized because it relies on the Lilly rationale. Contrary to applicants' assertions, the instant written description rejection is not limited to the situation posed in Lilly, and is appropriate for the instantly claimed invention. The invention is drawn to a method of interfering with transcription of hyphal specific genes in *C. albicans* mediated by cis acting sequences. The examples provided in the instant disclosure, including the various hypha specific genes SAP6, ALS3, HYR, ECE1.. are not adequately representative of all hyphal specific genes in *C. albicans*. Furthermore, the examples provided for cis acting sequences including UAS and UAR are not adequately

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representative of all cis acting sequences participating in the transcriptional regulation of all hypha specific genes in *C. albicans*. The prophetic disclosure of DNA binding proteins that have been reported in the literature and that may bind and mediate other possible cis acting sequences does not substitute for adequate written description or enablement of the broadly claimed invention drawn to any cis acting sequences mediating the transcription of any hyphal specific genes in *C. albicans*.

Applicant argues that one skilled in the art could be able to, by routine experimentation, adequately identify and describe the deletions, mutations, insertions and modifications of the hyphal specific sequence of SEQ ID NO: 1. Contrary to applicant's assertions, no deletions, mutations, insertions and modifications of the hyphal specific sequence of SEQ ID NO: 1 have been described in the instant disclosure and it would take undue experimentation beyond that in the specification to identify and describe a representative number of deletions, mutations, insertions and modifications of the hyphal specific sequence of SEQ ID NO: 1. Therefore, the written description rejection is maintained.

Claims 1, 4--7, 11, 19-21, 27-32 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for measuring expression patterns of HWP1 mRNA and HWP1 protein in fungus compared to the expression of genomically inserted enolase, does not reasonably provide enablement for the ability to interfere with the expression of any hyphal specific genes in a fungus by interfering with

transcription of hyphal specific genes mediated by any cis acting sequences, for the reasons of record set forth in the Office action mailed 7-2-03.

Applicants argue that the instant invention is adequately described and enabled for its full scope and that existing methodologies have been cited for identifying the cis acting sequences present within the gene product claimed and for identifying the DNA binding proteins that may interact with the cis acting sequences within the gene product. Contrary to applicant's assertions, it would take undue experimentation to utilize existing methodologies to identify all, or a representative number of the broad genus comprising all cis acting sequences that mediate the transcription of any hyphal specific genes in *C. albicans*.

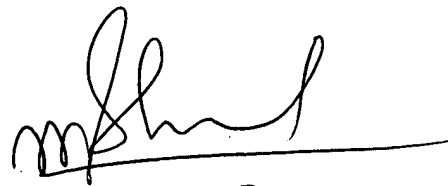
Applicants argue that all of the Wands factors have been adequately addressed and that the quantity of experimentation required to enable the full scope of the invention is not undue, and furthermore that the specification does not have to exemplify every aspect of the claim in order to enable the full scope. Contrary to applicant's assertions, the quantity of experimentation required to enable the scope claimed includes the teaching of methods of interfering with the expression of a representative number of hyphal specific genes by interfering with the transcription of a representative number of hyphal specific genes mediated by a representative number of cis acting sequences. The specification fails to provide adequate teachings for the interference of transcription of any hyphal specific gene by any cis acting sequences. Therefore, the enablement rejection is maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone numbers for the Group are (703) 308-4242 and (703) 305-3014. NOTE: If Applicant *does* submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. **NO DUPLICATE COPIES SHOULD BE SUBMITTED** so as to avoid the processing of duplicate papers in the Office.



RAM R. SHUKLA, PH.D.
PRIMARY EXAMINER

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jane Zara** whose telephone number is **(703) 306-5820**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (703) 308-0447. Any inquiry regarding this application should be directed to the patent analyst, Katrina Turner, whose telephone number is (703) 305-3413. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

JZ

December 19, 2003